

1/FWO

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/988,625

CRF Edit Date: 9/3/04
Edited by: [signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence
text "wrapp" to the next line
ENTERED
___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID
NO's edited:

___ Deleted: invalid beginning/end-of-file text ; page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFWO

RAW SEQUENCE LISTING

DATE: 09/03/2004

PATENT APPLICATION: US/10/788,625

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

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3 <110> APPLICANT: Tsurushita, Naoya
4      Kumar, Shankar
5      Vasquez, Maximiliano
7 <120> TITLE OF INVENTION: Humanized Chicken Antibodies
9 <130> FILE REFERENCE: 05882.0044.NPUS02
11 <140> CURRENT APPLICATION NUMBER: 10/788,625
C--> 12 <141> CURRENT FILING DATE: 2004-02-26
14 <160> NUMBER OF SEQ ID NOS: 103
16 <170> SOFTWARE: PatentIn version 3.2
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 378
20 <212> TYPE: DNA
21 <213> ORGANISM: Chicken
23 <400> SEQUENCE: 1
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26 cgtctgcaag gcctccgggt tcaccttcag tagttacagc atgctctggg tgcgacaggc      120
28 gcccggaag gggctggaat acgtcgtga aattaccaac actggttagga ccagaagata      180
30 cggggcggtg gtgaagggtc gtgccaccat ctcgagggac aacgggcaga gcacagttag      240
32 gctgcagctg aacaacctca gggctgagga caccggcacc tactactgcg ccagaagtag      300
34 tgtttattct tgttcttatg gttggtgtgc tggtaacatc aacgcattggg gccacgggac      360
36 cgaagtcata gtctcctc                                     378
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40 <211> LENGTH: 126
41 <212> TYPE: PRT
42 <213> ORGANISM: Chicken
44 <400> SEQUENCE: 2
46 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly
47 1          5          10          15
50 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Tyr
51          20          25          30
54 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
55          35          40          45
58 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val
59          50          55          60
62 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg
63 65          70          75          80
66 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
67          85          90          95
70 Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys Ala Gly Asn
71          100         105         110
74 Ile Asn Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
75          115         120         125
78 <210> SEQ ID NO: 3

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

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86 ctccgggggt tacagcggct attatggctg gtaccagcag aaatcacctg gcagtgcccc      120
88 tgtcactgtg atctatgaca acaccaggag accctcggac atcccttcac gattctccgg      180
90 ttccaaatcc ggctccacag ccacattaac catcactggg gtccaagccg acgacgaggc      240
92 tgtctatttc tgtgggacct gggacagcag ccgtgttggt atatttgggg ccgggacaac      300
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98 <211> LENGTH: 104
99 <212> TYPE: PRT
100 <213> ORGANISM: Chicken
102 <400> SEQUENCE: 4
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105 1          5          10          15
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109          20          25          30
112 Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Asp Asn Thr
113          35          40          45
116 Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly
117          50          55          60
120 Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Asp Asp Glu Ala
121 65          70          75          80
124 Val Tyr Phe Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe Gly
125          85          90          95
128 Ala Gly Thr Thr Leu Thr Val Leu
129          100
132 <210> SEQ ID NO: 5
133 <211> LENGTH: 30
134 <212> TYPE: PRT
135 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 5
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144          20          25          30
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148 <211> LENGTH: 14
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 6
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155 1          5          10
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159 <211> LENGTH: 32
160 <212> TYPE: PRT
161 <213> ORGANISM: Homo sapiens

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

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163 <400> SEQUENCE: 7
165 Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
166 1          5          10          15
169 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
170          20          25          30
173 <210> SEQ ID NO: 8
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175 <212> TYPE: PRT
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186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens
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192 1          5          10          15
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201 <212> TYPE: PRT
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 10
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211 <211> LENGTH: 32
212 <212> TYPE: PRT
213 <213> ORGANISM: Homo sapiens
215 <400> SEQUENCE: 11
217 Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser
218 1          5          10          15
221 Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
222          20          25          30
225 <210> SEQ ID NO: 12
226 <211> LENGTH: 11
227 <212> TYPE: PRT
228 <213> ORGANISM: Homo sapiens
230 <400> SEQUENCE: 12
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233 1          5          10
236 <210> SEQ ID NO: 13
237 <211> LENGTH: 378
238 <212> TYPE: DNA
239 <213> ORGANISM: Homo sapiens
241 <400> SEQUENCE: 13

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

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242 tgaggtgcag ttggtggagt ccggaggtgg actcgtgcag cctggaggaa gcctcaggct      60
244 cagctgcgcc gcctccgggt tcaccttcag tagttacagc atgctctggg tgcgacaggc      120
246 gcctggcaag ggactggaat acgtcgtga aattaccaac actggttaga ccagaagata      180
248 cggagctgcg gtgaagggcc gtgccaccat ctcgaggac aacgccaaga acacagtgtg      240
250 cctgcagatg aacagcctca gggctgagga caccgccgtg tactactgcg ccagaagtag      300
252 tgtttattct tgttcttatg gttggtgtgc tggtaacatc aacgcattgg gccagggaac      360
254 cctggtcacc gtctcctc                                     378
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258 <211> LENGTH: 126
259 <212> TYPE: PRT
260 <213> ORGANISM: Homo sapiens
262 <400> SEQUENCE: 14
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265 1          5          10          15
268 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
269          20          25          30
272 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
273          35          40          45
276 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val
277          50          55          60
280 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
281 65          70          75          80
284 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
285          85          90          95
288 Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys Ala Gly Asn
289          100         105         110
292 Ile Asn Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
293          115         120         125
296 <210> SEQ ID NO: 15
297 <211> LENGTH: 315
298 <212> TYPE: DNA
299 <213> ORGANISM: Homo sapiens
301 <400> SEQUENCE: 15
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304 cacctgctcc ggaggttaca gcggttatta tggctggtac cagcagaaac ctggccaggc      120
306 tcctgtcact gtgatttatg acaacaccag gagaccctcg gacatccctt cagcattctc      180
308 cggttccaaa tccggtccca cagccacatt aaccatcact ggagtccaag ccgaggacga      240
310 ggctgactat tactgtggga cctgggacag cagccgtgtt ggtatatttg gaggtgggac      300
312 aaagctgacc gtcct                                     315
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316 <211> LENGTH: 105
317 <212> TYPE: PRT
318 <213> ORGANISM: Homo sapiens
320 <400> SEQUENCE: 16
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323 1          5          10          15
326 Thr Val Arg Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Tyr Gly Trp
327          20          25          30
330 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Val Ile Tyr Asp Asn

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

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331          35          40          45
334 Thr Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser
335          50          55          60
338 Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Glu Asp Glu
339 65          70          75          80
342 Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe
343          85          90          95
346 Gly Gly Gly Thr Lys Leu Thr Val Leu
347          100          105
350 <210> SEQ ID NO: 17
351 <211> LENGTH: 27
352 <212> TYPE: DNA
353 <213> ORGANISM: Artificial
355 <220> FEATURE:
356 <223> OTHER INFORMATION: Synthetic Primer
358 <400> SEQUENCE: 17
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362 <210> SEQ ID NO: 18
363 <211> LENGTH: 31
364 <212> TYPE: DNA
365 <213> ORGANISM: Artificial
367 <220> FEATURE:
368 <223> OTHER INFORMATION: Synthetic Primer
370 <400> SEQUENCE: 18
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374 <210> SEQ ID NO: 19
375 <211> LENGTH: 30
376 <212> TYPE: DNA
377 <213> ORGANISM: Artificial
379 <220> FEATURE:
380 <223> OTHER INFORMATION: Synthetic Primer
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387 <211> LENGTH: 33
388 <212> TYPE: DNA
389 <213> ORGANISM: Artificial
391 <220> FEATURE:
392 <223> OTHER INFORMATION: Synthetic Primer
394 <400> SEQUENCE: 20
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398 <210> SEQ ID NO: 21
399 <211> LENGTH: 45
400 <212> TYPE: DNA
401 <213> ORGANISM: Artificial
403 <220> FEATURE:
404 <223> OTHER INFORMATION: Synthetic Primer
406 <400> SEQUENCE: 21
407 cttcgtgcta gcgtccactc caatatagat gtgtgcaagc ttggc

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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 09/03/2004

PATENT APPLICATION: US/10/788,625

TIME: 14:29:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40

Seq#:41,42,43,44,45,46,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68

Seq#:69,70,87,88

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

W--> 1 05882.0044.NPUS02 *delete*

4 <110> APPLICANT: Tsurushita, Naoya

5 Kumar, Shankar

6 Vasquez, Maximiliano

8 <120> TITLE OF INVENTION: Humanized Chicken Antibodies

10 <130> FILE REFERENCE: 05882.0044.NPUS02

12 <140> CURRENT APPLICATION NUMBER: 10/788,625

C--> 13 <141> CURRENT FILING DATE: 2004-02-26

15 <160> NUMBER OF SEQ ID NOS: 103

17 <170> SOFTWARE: PatentIn version 3.2

19 <210> SEQ ID NO: 1

20 <211> LENGTH: 378

21 <212> TYPE: DNA

22 <213> ORGANISM: Chicken

24 <400> SEQUENCE: 1

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27	cgtctgcaag	gcctccgggt	tcaccttcag	tagttacagc	atgctctggg	tgcgacaggc	120
29	gcccggcaag	gggctggaat	acgtcgctga	aattaccaac	actggtagga	ccagaagata	180
31	cggggcggcg	gtgaagggcc	gtgccaccat	ctcgaggagc	aacgggcaga	gcacagtgag	240
33	gctgcagctg	aacaacctca	gggctgagga	caccggcacc	tactactgcg	ccagaagtag	300
35	tgttttattct	tgttcttatg	gttggtgtgc	tggtaacatc	aacgcatggg	gccacggggac	360
37	cgaagtcatc	gtctcctc					378

40 <210> SEQ ID NO: 2

41 <211> LENGTH: 126

42 <212> TYPE: PRT

43 <213> ORGANISM: Chicken

45 <400> SEQUENCE: 2

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51	Ala	Leu	Ser	Leu	Val	Cys	Lys	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
52				20					25					30		
55	Ser	Met	Leu	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Tyr	Val
56			35					40				45				
59	Ala	Glu	Ile	Thr	Asn	Thr	Gly	Arg	Thr	Arg	Arg	Tyr	Gly	Ala	Ala	Val
60		50				55			60							
63	Lys	Gly	Arg	Ala	Thr	Ile	Ser	Arg	Asp	Asn	Gly	Gln	Ser	Thr	Val	Arg
64	65				70				75				80			
67	Leu	Gln	Leu	Asn	Asn	Leu	Arg	Ala	Glu	Asp	Thr	Gly	Thr	Tyr	Tyr	Cys
68				85				90					95			
71	Ala	Arg	Ser	Ser	Val	Tyr	Ser	Cys	Ser	Tyr	Gly	Trp	Cys	Ala	Gly	Asn
72			100					105					110			
75	Ile	Asn	Ala	Trp	Gly	His	Gly	Thr	Glu	Val	Ile	Val	Ser	Ser		
76			115					120					125			

Does Not Comply
Corrected Diskette Needed

pp 1,6

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

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87 ctccgggggt tacagcggct attatggctg gtaccagcag aaatcacctg gcagtgcccc      120
89 tgtcactgtg atctatgaca acaccaggag accctcggac atcccttcac gattctccgg      180
91 ttccaaatcc ggctccacag ccacattaac catcactggg gtccaagccg acgacgaggc      240
93 tgtctatttc tgtgggacct gggacagcag ccgtgttggt atatttgggg ccgggacaac      300
95 cctgaccgtc ct                                     312
98 <210> SEQ ID NO: 4
99 <211> LENGTH: 104
100 <212> TYPE: PRT
101 <213> ORGANISM: Chicken
103 <400> SEQUENCE: 4
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106 1      5      10      15
109 Lys Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Tyr Gly Trp Tyr Gln
110      20      25      30
113 Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Asp Asn Thr
114      35      40      45
117 Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly
118      50      55      60
121 Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Asp Asp Glu Ala
122 65      70      75      80
125 Val Tyr Phe Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe Gly
126      85      90      95
129 Ala Gly Thr Thr Leu Thr Val Leu
130      100
133 <210> SEQ ID NO: 5
134 <211> LENGTH: 30
135 <212> TYPE: PRT
136 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 5
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141 1      5      10      15
144 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
145      20      25      30
148 <210> SEQ ID NO: 6
149 <211> LENGTH: 14
150 <212> TYPE: PRT
151 <213> ORGANISM: Homo sapiens
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156 1      5      10
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160 <211> LENGTH: 32
161 <212> TYPE: PRT

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

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162 <213> ORGANISM: Homo sapiens
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170 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
171          20          25          30
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175 <211> LENGTH: 9
176 <212> TYPE: PRT
177 <213> ORGANISM: Homo sapiens
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182 1          5
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186 <211> LENGTH: 22
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo sapiens
190 <400> SEQUENCE: 9
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193 1          5          10          15
196 Thr Val Arg Ile Thr Cys
197          20
200 <210> SEQ ID NO: 10
201 <211> LENGTH: 15
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 10
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208 1          5          10          15
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212 <211> LENGTH: 32
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 11
218 Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser
219 1          5          10          15
222 Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
223          20          25          30
226 <210> SEQ ID NO: 12
227 <211> LENGTH: 11
228 <212> TYPE: PRT
229 <213> ORGANISM: Homo sapiens
231 <400> SEQUENCE: 12
233 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
234 1          5          10
237 <210> SEQ ID NO: 13
238 <211> LENGTH: 378
239 <212> TYPE: DNA
240 <213> ORGANISM: Homo sapiens

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

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242 <400> SEQUENCE: 13
243 tgaggtgcag ttggtggagt ccggaggtgg actcgtgcag cctggaggaa gcctcaggct      60
245 cagctgcgcc gcctccgggt tcaccttcag tagttacagc atgctctggg tgcgacaggc      120
247 gcctggcaag ggactggaat acgtcgctga aattaccaac actggtagga ccagaagata      180
249 cggagctgcg gtgaagggcc gtgccaccat ctcgaggggac aacgccaaga acacagtgtg      240
251 cctgcagatg aacagcctca gggctgagga caccgccgtg tactactgcg ccagaagtag      300
253 tgtttattct tgttcttatg gttggtgtgc tggtaacatc aacgcacggg gccagggaac      360
255 cctggtcacc gtctcctc                                     378
258 <210> SEQ ID NO: 14
259 <211> LENGTH: 126
260 <212> TYPE: PRT
261 <213> ORGANISM: Homo sapiens
263 <400> SEQUENCE: 14
265 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
266 1      5      10      15
269 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
270      20      25      30
273 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
274      35      40      45
277 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val
278      50      55      60
281 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
282 65      70      75      80
285 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
286      85      90      95
289 Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys Ala Gly Asn
290      100     105     110
293 Ile Asn Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
294      115     120     125
297 <210> SEQ ID NO: 15
298 <211> LENGTH: 315
299 <212> TYPE: DNA
300 <213> ORGANISM: Homo sapiens
302 <400> SEQUENCE: 15
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305 cacctgctcc ggaggttaca gcggctatta tggctgttac cagcagaaac ctggccaggc      120
307 tcctgtcact gtgatttatg acaacaccag gagaccctcg gacatccctt caccattctc      180
309 cggttccaaa tccggtcca cagccacatt aaccatcact ggagtccaag ccgaggacga      240
311 ggctgactat tactgtggga cctgggacag cagccgtgtt ggtatatttg gaggtgggac      300
313 aaagctgacc gtcct                                     315
316 <210> SEQ ID NO: 16
317 <211> LENGTH: 105
318 <212> TYPE: PRT
319 <213> ORGANISM: Homo sapiens
321 <400> SEQUENCE: 16
323 Ser Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Leu Gly Gln
324 1      5      10      15
327 Thr Val Arg Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Tyr Gly Trp
328      20      25      30

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

```

331 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Val Ile Tyr Asp Asn
332      35      40      45
335 Thr Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser
336      50      55      60
339 Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Glu Asp Glu
340 65      70      75      80
343 Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe
344      85      90      95
347 Gly Gly Gly Thr Lys Leu Thr Val Leu
348      100      105
351 <210> SEQ ID NO: 17
352 <211> LENGTH: 27
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Synthetic Primer
359 <400> SEQUENCE: 17
360 gggggcgcca gcggtcgcc ctgtgtc
363 <210> SEQ ID NO: 18
364 <211> LENGTH: 31
365 <212> TYPE: DNA
366 <213> ORGANISM: Artificial
368 <220> FEATURE:
369 <223> OTHER INFORMATION: Synthetic Primer
371 <400> SEQUENCE: 18
372 cccggcgccg acaacggttt ggagggacct c
375 <210> SEQ ID NO: 19
376 <211> LENGTH: 30
377 <212> TYPE: DNA
378 <213> ORGANISM: Artificial
380 <220> FEATURE:
381 <223> OTHER INFORMATION: Synthetic Primer
383 <400> SEQUENCE: 19
384 gggcttagag ccattggact ctccgtcctg
387 <210> SEQ ID NO: 20
388 <211> LENGTH: 33
389 <212> TYPE: DNA
390 <213> ORGANISM: Artificial
392 <220> FEATURE:
393 <223> OTHER INFORMATION: Synthetic Primer
395 <400> SEQUENCE: 20
396 cccgctcagc cctccaaatt ttcattcctgg atc
399 <210> SEQ ID NO: 21
400 <211> LENGTH: 45
401 <212> TYPE: DNA
402 <213> ORGANISM: Artificial
404 <220> FEATURE:
405 <223> OTHER INFORMATION: Synthetic Primer
407 <400> SEQUENCE: 21

```

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6

<400> 103

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Val
20 25 30

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Phe Thr Ile
35 40 45

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu
50 55 60

Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Trp Gly Gln Gly
65 70 75 80

Thr Leu Val Thr Val Ser Ser
85

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004
TIME: 16:34:47

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\09012004\J788625.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40
Seq#:41,42,43,44,45,46,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68
Seq#:69,70,87,88

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:47

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date